

## INTERNATIONAL SEARCH REPORT

 International Application No  
 PCT/IB2004/050308

## A. CLASSIFICATION OF SUBJECT MATTER

 IPC 7 B29C33/10 B22F3/11 B29C33/38 B29D31/00 B29C37/00  
 B29C33/56

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B22F B29C B29D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
X	WO 99/07532 A (CIBA SPECIALTY CHEMICALS HOLDING INC) 18 February 1999 (1999-02-18)	1-3, 6, 11-14, 16, 18, 21, 23, 24, 26
Y	page 3, paragraph 1	36, 37
Y	US 5 304 339 A (LE COMTE) 19 April 1994 (1994-04-19) column 5, line 48 - column 8, line 46; claims 1,2; figures 1,2	36, 37
X	US 6 499 715 B1 (FURUYA ET AL.) 31 December 2002 (2002-12-31)	1-3, 6
Y	column 4, line 26 - column 5, line 8; figures 1,2	36, 37
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Further documents are listed in the continuation of box C



Patent family members are listed in annex

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Date of the actual completion of the international search

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## C (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
Y	US 6 264 877 B1 (PALLU DE LA BARRIERE PHILIPPE) 24 July 2001 (2001-07-24) column 3, line 11 - column 4, line 41; claims; figures -----	36,37
X	WO 03/024687 A (UDIN, ALEXANDRE) 27 March 2003 (2003-03-27) -----	1,2,6, 10,11, 23,29, 30,35
Y	page 5; claim 8; figures -----	31
Y	US 4 398 693 A (HAHN ET AL) 16 August 1983 (1983-08-16) -----	31
A	column 2; figures -----	30,35
X	PATENT ABSTRACTS OF JAPAN vol. 005, no. 090 (M-073), 12 June 1981 (1981-06-12) & JP 56 038213 A (KASAI KOGYO CO LTD), 13 April 1981 (1981-04-13) -----	1-3,10, 27
Y	abstract; figures -----	6,13,40
Y	PATENT ABSTRACTS OF JAPAN vol. 014, no. 023 (M-920), 17 January 1990 (1990-01-17) & JP 01 263013 A (DAINIPPON PRINTING CO LTD), 19 October 1989 (1989-10-19) -----	6,13,40
X	abstract; figures -----	
X	PATENT ABSTRACTS OF JAPAN vol. 2002, no. 02, 2 April 2002 (2002-04-02) & JP 2001 293741 A (KASAI KOGYO CO LTD), 23 October 2001 (2001-10-23) -----	1,10,13, 22-24
X	abstract; figures -----	
X	EP 0 936 043 A (SCHROETER PROFILSTAB GMBH; KUNSTSTOFFTECHNIK WERNER BIEDA) 18 August 1999 (1999-08-18) -----	40
A	column 3, paragraph 18 - column 4, paragraph 25 -----	13
X	US 5 529 479 A (SOUDERS ET AL) 25 June 1996 (1996-06-25) -----	1,2,6, 10-13, 21-24, 30,35
	column 3, line 22 - column 4, line 25; claims 1,2; figures 1-4 -----	
A	US 5 709 893 A (MCCARVILLE ET AL) 20 January 1998 (1998-01-20) column 1, line 6 - line 27; claims 10,11 column 2, line 66 - column 3, line 39 column 8 -----	1-31, 35-39
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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
A	US 5 686 038 A (CHRISTENSEN ET AL.) 11 November 1997 (1997-11-11) claims; figures -----	1-31, 35-39
A	EP 1 316 400 A (GAMESA DESARROLLOS AERONAUTICOS, S.A.) 4 June 2003 (2003-06-04) page 3, paragraph 20 - page 4, paragraph 28; claims; figures -----	1-31, 35-40

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB2004/050308

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9907532	A	18-02-1999	WO 9907532 A2	18-02-1999
			EP 1001870 A2	24-05-2000
US 5304339	A	19-04-1994	US 5096651 A	17-03-1992
			NL 9200963 A	01-07-1993
US 6499715	B1	31-12-2002	JP 2000176942 A	27-06-2000
			JP 2000289033 A	17-10-2000
			JP 2000351124 A	19-12-2000
			GB 2346107 A ,B	02-08-2000
			TW 452535 B	01-09-2001
US 6264877	B1	24-07-2001	FR 2760681 A1	18-09-1998
			DE 69805891 D1	18-07-2002
			EP 0865900 A1	23-09-1998
WO 03024687	A	27-03-2003	FR 2829721 A1	21-03-2003
			EP 1438169 A1	21-07-2004
			WO 03024687 A1	27-03-2003
			WO 03024688 A1	27-03-2003
			US 2005064148 A1	24-03-2005
US 4398693	A	16-08-1983	DE 2948690 A1	11-06-1981
			CA 1175625 A1	09-10-1984
			DK 515380 A ,B,	05-06-1981
			EP 0029912 A2	10-06-1981
			JP 1032766 B	10-07-1989
			JP 1550157 C	23-03-1990
			JP 56082210 A	04-07-1981
			US 4805291 A	21-02-1989
JP 56038213	A	13-04-1981	NONE	
JP 01263013	A	19-10-1989	JP 2066632 C	10-07-1996
			JP 7102588 B	08-11-1995
JP 2001293741	A	23-10-2001	NONE	
EP 0936043	A	18-08-1999	DE 19805636 A1	26-08-1999
			DE 29824743 U1	07-08-2003
			DE 29924215 U1	18-09-2003
			EP 0936043 A2	18-08-1999
US 5529479	A	25-06-1996	US 5441675 A	15-08-1995
US 5709893	A	20-01-1998	US 6861017 B1	01-03-2005
US 5686038	A	11-11-1997	NONE	
EP 1316400	A	04-06-2003	ES 2208028 A1	01-06-2004
			EP 1316400 A1	04-06-2003
			US 2003091679 A1	15-05-2003